CONFIDENTIAL 13A/GS/MG

East Germany

August 1973

 \bigcirc

 \bigcirc

NATIONAL INTELLIGENCE SURVEY

CONFIDENTIAL



WARNING

The NIS is National Intelligence and may not be released or shown to representatives of any foreign government or international body except by specific authorization of the Director of Central Intelligence in accordance with the provisions of National Security Council Intelligence Directive No. 1.

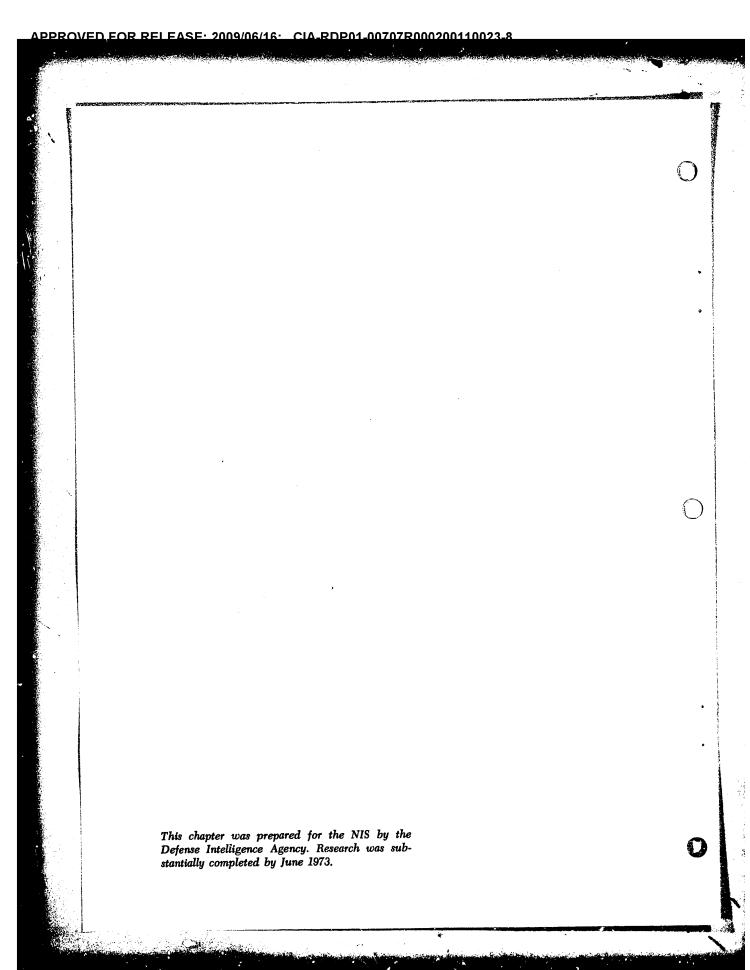
For NIS containing unclassified material, however, the portions so marked may be made available for official purposes to foreign nationals and nongovernment personnel provided no attribution is made to National Intelligence or the National Intelligence Survey.

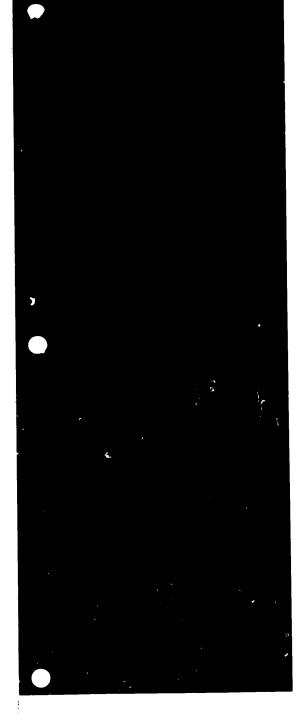
Subsections and graphics are individually classified according to content. Classification/control designations are:

(U/OU) ... Unclassified/For Official Use Only

(C) Confidential

(S) Secret





East GERMANY

CONTENTS

This chapter supersedes the geographic coverage in the General Survey dated February 1970.

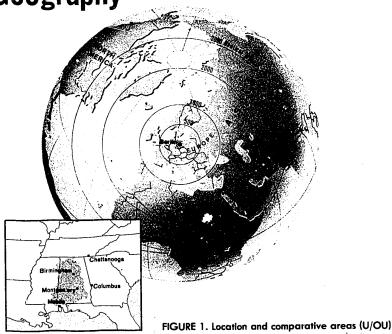
A. General	1
1. Topography	
2. Climate	
B. Military geographic region	4
C. Strategic areas	8
1. Saxony	
2. East Berlin	
D. Internal routes	13
E. Approaches	13
1. Land	
2. Sea	
0 Aim	

CONFIDENTIAL

FIGURES

		Page			Page
Fig. 1	Location and comparative areas		Fig. 11	Magdeburg (photo)	. 11
	(map)	. 1		Erfurt (photo)	
Fig. 2	Terrain (map)	. 3	Fig. 13	East Berlin strategic area (map)	. 12
Fig. 3	Village in northern plains (photo).	. 4	Fig. 14	East Berlin (photo)	. 12
Fig. 4	*	4		Strategic areas, internal routes, and	
	(photo)		TV 10	approaches (map)	. 14
Fig. 5	• ,		r1g. 10	Multiple border obstacles along	
Fig. 6	Village in the Erzgebirge (photo).	. 5		Berlin wall (photo)	
Fig. 7				Checkpoint at Berlin wall (photo).	
U		. •	Fig. 18	Internal routes (table)	. 17
Fig. 8		-		Boundaries (table)	
	(photo)	. 7		Land approaches (table)	
Fig. 9				Terrain and transportation	
Fig. 1	0 Leipzig (photo)	. 10	_	(map) follow	s 20

Military Geography



A. General (U/OU)

East Germany is important from a military standpoint because it is on the North European Plain, is near the entrance to the Baltic Sea, and is the westernmost Soviet-dominated territory in Europe. The eastern border of East Germany is about 200 nautical miles from the U.S.S.R. (Figure 1), and East Berlin is less than 875 nautical miles from Moscow. Soviet forces stationed in East Germany occupy a forefront military position in north-central Europe. Nearly all NATO installations in the Federal Republic of Germany are less than 130 nautical miles from East Germany. Rhein Main Airfield, one of the largest U.S. installations in Europe, is about 60 nautical miles distant, and the Ruhr, the largest steel-producing area in Western Europe, about 100 nautical miles. The industrial complexes of Belgium and northern France and the great ports of the Low Countries are within 250 nautical miles; the chief industrial centers of the United Kingdom, southern France, and northern Italy are only about 500 nautical miles distant. Almost all of non-Communist Europe is within 1,000 nautical miles of this Soviet-controlled country.

The total land area of East Germany is about 41,800 square miles, slightly smaller than Alabama. The country extends about 315 miles1 north-south and approximately 225 miles east-west (Figure 21); no point in the country is more than 80 miles from some

¹Distances are in statute miles unless nautical miles are specifically indicated.

part of the border. The population, about 17 million, is slightly less than five times that of Alabama. East Germany is smaller in size than any country with which it shares a common boundary, and only Czechoslovakia has a smaller population.

1. Topography

Subdued topography and many lakes and streams characterize East Germany. The East Germany portion of the North European Plain is nearly flat to gently rolling and slopes from a highlands area in the south to the low-lying, island-fronted Baltic coast (Figure 2). The settlement pattern is one of numerous small towns and villages concentrated on the plains (Figure 3). Large urban and industrial centers are mainly in the southern half of the country.

In the nearly flat northern two-thirds of the East German plain elevations are less than 650 feet, most slopes are less than 10%, and local relief (differences in elevation between tops and bottoms of adjacent topographic features) is less than 250 feet. Low hillocks and ridges are in some areas near the northern lakes.

The more rolling southern third of the plain has elevations of nearly 1,600 feet, some slopes between 10% and 30%, and local relief of under 500 feet. There are a few isolated areas of hills and ridges (Figure 4) in the south where local relief is over 500 feet and slopes are over 30%. Drainage features on the low plain are closely spaced and include the relatively large northwest-flowing streams, canals, thousands of lakes (most of which are in the north), and perennially wet areas on poorly drained lowlands and on flood plains bordering some streams. Areas of vegetation on the plains include large tracts of cultivated fields, meadows, small orchards, vegetable plots, and forested areas, the most extensive of which are pine forests located north and southeast of Berlin. The principal field crops are rye, wheat, barley, oats, and potatoes. The settlement pattern in the areas of cultivation is mostly one of small villages rather than single farmsteads.

Fringing the East German plain in the south and southwest is a narrow (less than 5 to about 50 miles), discontinuous belt of spruce- and beech-forested hills that have elevations between 1,600 and 3,300 feet bbove sea level, slopes of 30% or greater, and local relief ranging from 500 to 1,200 feet. The highland belt consists of the steep-sided edges and rolling interior of the eastern two-thirds of the Harz (Figure

5), the heavily forested, dissected Thueringer Wald, ² and the rolling lands of the Erzgebirge (Figure 6), which rise southward in long, gentle slopes. The hilly, dissected upland is interrupted or penetrated by scattered small lowlands which, in places, form corridors. Tributaries of several northward-flowing streams originate in the southern hills and flow swiftly between steep banks. Several important towns are within the highland area, but most of the highly urbanized and industrialized cities of southern East Germany are in the plains, adjacent to and north of the belt of hills.

2. Climate

East Germany has a predominantly maritime climate that is sometimes interrupted in winter by brief periods of cold continental weather from the east. Variations in climate in different parts of the country are not marked except for increased cloudiness and precipitation and lower ceilings over the hilly terrain in the south. Winter (early December through February) is characterized by high relative humidity, extensive cloudiness, frequent rain or snow, poor visibility, occasional strong winds, and moderately cold temperatures. Summer (early June through August) is slightly less cloudy, with frequent rain, mild temperatures, continued high humidity, and moderate thunderstorm activity. Spring (early March through May) and autumn (early September through November) are transitional seasons.

Mean daily minimum temperatures in winter range between 25° and 30° (F.) in the plains and between 15° and 25° in the highlands, but absolute minimums below -15° have occurred at most locations (Figure 7). Mean daily maximum temperatures in summer range from 60° to 75°; readings are slightly lower in the highlands. Temperatures occasionally reach the 90's when hot, dry winds are from the south.

Precipitation is frequent but usually light. Annual totals average 20 to 30 inches at most places, but some exposed locations in the southern hills receive more than 50 inches. Snowfall is fairly frequent from November through April. Snow falls on an average of 25 to 45 days annually over most of the country, but in the higher hills it may occur on as many as 100 days. Snow cover does not last throughout the winter except at higher elevations. Snow depths up to 16 inches have been measured in the lowlands, and depths over 10

^{*}For diacritics on place names see the list of names on the apron of the Terrain and Transportation map, the map itself, and maps in the text

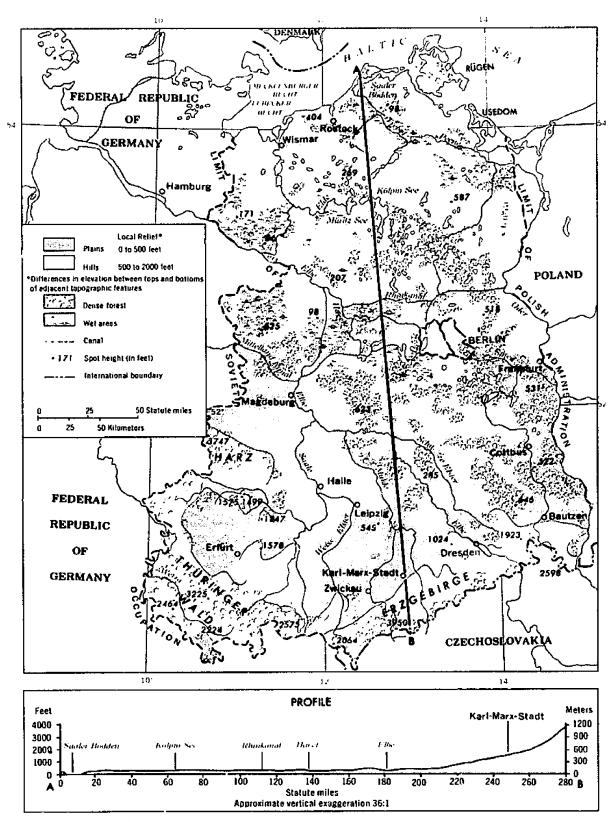


FIGURE 2. Terrain (C)



FIGURE 3. Village in the northern plains (U/OU)

feet have occurred in the southern hills. Thunderstorms are fairly common in late spring and summer, when they occur on 3 to 7 days per month.

Average cloud cover is mostly 50% to 80% in summer and 70% to 90% in winter. Ceilings are lowest and visibilities poorest in late autumn, winter, and early spring. Fog, smoke, and haze are the chief obstructions to visibility.

Strong surface winds (28 knots or greater) are infrequent except at higher locations in the south, where they may occur on 10 to 15 days per month in winter and on 2 to 6 days per month in summer.

B. Military geographic region (C)

East Germany is one military geographic region. Throughout the country, the combination of environmental conditions would have a relatively uniform effect on military operations.

Conditions are generally suited for conventional ground operations. Fairly extensive areas of nearly flat to rolling cultivated plains are well drained and suitable for the cross-country movement of wheeled and tracked vehicles, particularly south of a line from Magdeburg to Bautzen. There are scattered areas fairly well suited for cross-country movement of tracked vehicles in the northern part of the plains. Extensive areas of marshes and lakes on the plains and tracts of dense forests in the central and northeastern parts of the country preclude or restrict all but local movement. In the hills, steep slopes generally greater than 30%, dense spruce and beech forests, and deep winter snows in the Thueringer Wald are the major hindrances to movement.

Most streams would be difficult to cross during high-water periods. Ice breakup and snowmelt cause high water from early February through April; highest



FIGURE 4. Steep forested slopes along the Elbe River (C)

levels are in late March. Heavy showers during July and August may cause short secondary high-water levels. Flooding is common along lower stream courses during these periods. Low water usually occurs from mid-June or early July through October. Most streams are 2 to 10 feet deep, and principal rivers are generally more than 5 feet in their middle and lower courses. Many streams are more than 200 feet wide, but only the Elbe and the Oder are more than 500 feet wide. Except in the southern hills, streams generally flow sluggishly between low, marshy banks through broad. shallow valleys. Most streambanks and bottoms are clay or sand. Only tributaries originating in the southern hills and the upper reaches of major streams (Figure 8) have high, steep banks and rocky or gravelly bottoms. Streambanks and canals are commonly revetted within cities. Cross-country vehicular movement would be restricted and channeled or compartmented by numerous drainage features, especially the broad, deep Elbe south of Magdeburg, the Oder along the eastern boundary, the many lakes and interconnecting canals and rivers, the extensive canal system linking the Oder and Elbe and focusing



FIGURE 5. The rolling interior of the Harz (U/OU)

on Berlin, and the numerous seasonally and perennially wet areas.

Good facilities for rapid onroad movement are provided by the dense network of surfaced roads augmented by several high-capacity autobahns (fourlane, limited-access, divided, concrete highways) which serve all large urban areas and important industrial concentrations. Berlin is the focus of the East German highway system, but the greatest concentration of roads is in the southern half of the country. The major roads are capable of supporting sustained heavy traffic during all seasons of the year. The few bottlenecks to onroad movement consist of steep grades and winter snows in the hills and sharp curves, stone gateways, and narrow streets in towns and villages. Offroad dispersal would be hindered mainly by wet ground and drainage ditches in the north and by steep slopes and rugged terrain in the southern hills. Roads with unrestricted alignments and gentle grades could be built relatively easily in most places. Natural foundations are fair to poor, but natural construction materials are readily available. Major construction problems would be encountered in areas of poorly drained soils, in scattered tracts of dense forest, and on steep slopes of the southern hills.



FIGURE 6. Village in the Erzgebirge (U/OU)

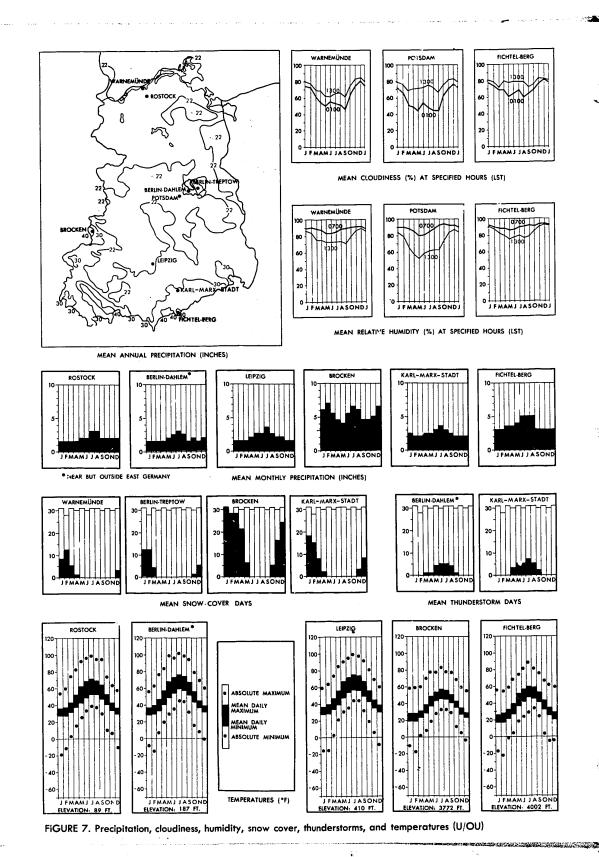




FIGURE 8. The Elbe River in southern East Germany (U OU)

Soils freeze to a depth of 1 foot in most plains areas and to 2 feet in the higher hills. In most places the ground is frozen periodically from early December through February and is snow covered for about one-third of that period; the ground at higher elevations in the south and southwest is almost continuously frozen and snow covered from early December through February. During the spring thaw, beginning in March in most places and in April at higher elevations in the southern highlands, the ground is wet for several weeks. After the thaw, most of the ground remains moist until freezing in early December.

Good concealment of troops and vehicles from aerial observation would be provided by forested areas. Cover from flat-trajectory fire and good concealment from ground observation would be available in the deeply dissected parts of the southern hills, in the low hills, incised valleys, and escarpments of the rolling plains, and in the hillocks and low ridges of the lake belt in the northern part of the plains. Fair concealment and cover from small arms fire would be afforded by river dikes, ditches in fields, and embankments. Some concealment for foot troops

would be provided in June and July by extensive grainfields. Bunkers and hasty ground shelters could be constructed readily in most parts of the country, especially in large areas of the plains where soils are deep, well drained, and easily exeavated. Construction of tunnel-type installations would be feasible only in scattered areas of the southern hills; extensive drilling and blasting would be required.

Most of East Germany is well suited for airborne and airmobile operations. The nearly flat to rolling, cultivated plains offer numerous sites for airdrops, helicopter and assault-type aircraft landings, and the construction of large airfields. Airdrop sites are particularly good in the northern and southern parts of the plain where air approaches are generally unobstructed, and movement from sites would be facilitated by numerous good roads. The large number of airfields scattered throughout the country would provide landing strips for assault-type aircraft. These airfields are most numerous near the center of the country, especially in the vicinity of Berlin. Many sections of autobahns and World War II airstrips now under cultivation or completely abandoned would

provide secondary sites suitable for the landing of assault-type aircraft. The plains afford the most sites suited for airfield construction. Major hindrances to construction are soils that require artificial drainage and frozen ground, generally occurring from December to February. In the southern hill belt, sites for the construction of airfields are few and poor; in the dissected parts of the hill belt, steep slopes, scattered areas of wet ground, and dense forests would hinder or preclude airmobile and airborne operations. Weather conditions throughout East Germany are well suited for airborne operations during most of the year but are best in summer, when extensive cloudiness and high surface winds are at minimums.

Conditions are generally unsuited for large-scale amphibious operations because of poor sea approaches, rock-littered sandy shores, and lack of good exits from most beaches. Although offshore approaches to the low, sandy coast are predominantly clear, most nearshore approaches through the shallow coastal waters are encumbered by large and small islands, shoals, submerged and exposed rocks, shifting bars, wrecks, and groins. Tidal ranges are negligible. Sea ice forms during most winters, and the coastal ice cover is nearly complete in exceptionally severe winters. Exits from the beaches are cross-country, and movement inland would be hindered in some places by cliffs and bluffs and in others by extensive lagoons and marshes behind the beaches.

East Germany is generally unsuited for irregular force operations. The nearly flat to rolling plains and the extensive network of roads and railroads, especially in the vicinity of Berlin and in the south, would favor the rapid movement of conventional forces and severely restrict irregular force operations. Movement on foot would generally be possible everywhere except in areas of soft ground and across canals and streams too deep to ford. On the plains, local hindrances to movement on foot such as hillocks and tracts of forests could be easily bypassed. In the dissected areas of the southern hills, deep snow in winter and steep slopes constitute major obstacles to movement on foot. In the southern hills, dense forests and caves provide cover and concealment from air and ground observation; surface irregularities provide additional cover from flat-trajectory fire. Adequate amounts of water are generally available, but water quality is mostly poor. Chemical and biological contamination is prevalent in the populous industrial areas of the southern and central parts of East Germany; contamination is less serious in the rivers and lakes of the northern plains. Food, small arms, ammunition, and shelter would be available at scattered farms and small villages.

Numerous forest areas provide adequate sources of wood for fuel or construction of shelters. The supplying of irregular forces by air is aided by numerous sites suitable for airdrops, especially in the northern and southern sections of the plains. Supply by air would be best in the summer, when flying conditions are most favorable and when forests and cultivated crops would provide irregular forces with concealment from ground observation. There are few environmental factors adversely affecting health. The temperate climate, usually adequate rainfall, and the relative scarcity of dangerous plants and animals are factors favorable for irregular force operations.

C. Strategic areas (C)

There are two strategic areas in East Germany—Saxony and East Berlin (Figure 15). They contain the major industrial concentrations and population centers, numerous important military installations, much of the skilled labor, and the principal transportation, communication, political, economic, and marketing centers of the country.

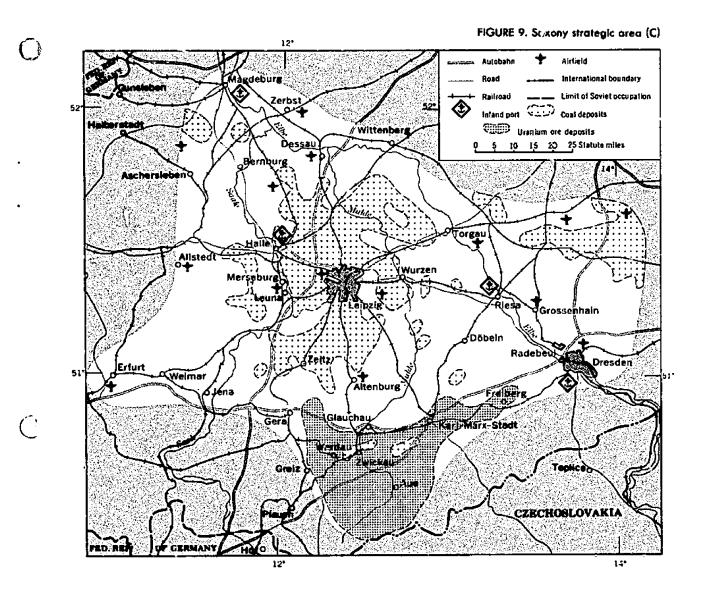
1. Saxony

This strategic area (Figure 9) is the industrial heart of East Germany and makes a substantial contribution to the industrial capacity of the Soviet-oriented countries. More than half of the gross output of manufacturing is produced in this heavily industrialized area. It contains the main coal region and the principal uranium ore deposits in East Germany.

The Saxony strategic area contains five of the six largest cities in the country. These are Leipzig (population estimated at 583,000), second only to East Berlin in size; Dresden (population estimated at 506,000), Karl-Marx-Stadt (population estimated at 300,000); Magdeburg (population estimated at 272,000); and Halle (population estimated at 257,000).

Leipzig (Figure 10) is the second most important transportation and telecommunication center in the country and an important producer of ball bearings, heavy equipment such as cranes and hoists, and complete chemical installations. Other principal industries produce industrial and agricultural machinery, electrical and electronic equipment, mining equipment, machine tools, iron and steel, cement products, and refined petroleum products.

Dresden is the largest producer of small electric motors and a major producer of transformers and related electrical equipment, pharmaceuticals, and



cameras. Other important products are telecommunications equipment, machine tools, chemicals and chemical equipment, steel, and precision instruments. In Dresden and its environs are numerous institutes and technical schools, one of which has the only nuclear research reactor in East Germany.

Karl-Marx-Stadt is the country's largest producer of textile machinery, machine tools, precision instruments, and small weapons. Equipment for telecommunications, chemical, and electrical uses are also manufactured here.

Halle contains the most important railroad car plant in the country, the only plant producing synthetic rubber, and important chemical, petroleum products, industrial machinery, and motor vehicle

Magdeburg (Figure 11) is one of the largest inland ports in the country and has major shipbuilding and repair facilities. The city is the most important heavy machine building center in the nation and an important producer of chemical equipment. It is also a significant producer of iron and steel, explosives, tractors, chemicals, and pharmaceuticals.

Jena (population estimated at 91,000) is the only producer of infrared components and is the principal optical glass and pharmaceutical center in the country.

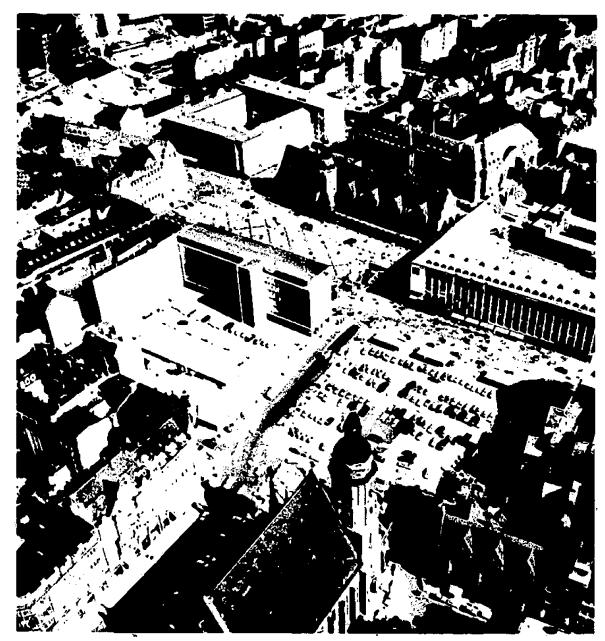


FIGURE 10. Historic inner city of Leipzig (U/OU)

The strategic area contains a large petroleum refinery and an important chemical center at Leuna (population estimated at 12,000). Large rubber tire factories and steel plants are at Riesa (population estimated at 50,000), and important motor vehicle, compressor, and coke and chemical plants are at Zwiekau (population estimated at 128,000). The largest uranium ore-concentrating plant in the world is

located northwest of Zwickau. Erfurt (Figure 12) is an important center for manufacturing telecommunications equipment (population estimated at 197,000).

Other cities and fowns in the strategic area produce mining, electrical, and heavy equipment, agricultural and industrial machinery, chemicals, pharmaceuticals, textiles, precision instruments, motor vehicles, rolling stock, machine tools, and refined metals. Extensive deposits of brown coal in the

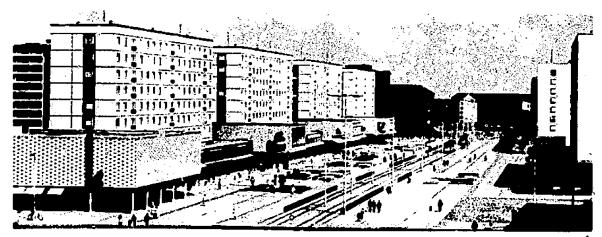


FIGURE 11. Modern shopping district in Magdeburg (U/QU)

strategic area are a basic source of power for the industries and the chief source of fuel for electric powerplants. There are numerous refineries, extensive storage facilities for refined petroleum products (capacity more than 3.5 million barrels), and major ammunition storage depots in the strategic area. Also in the area are 15 large, permanent-surface airfields.

2. East Berlin

The significance of this strategic area (Figure 13) derives from its functions as a political, industrial,

transportation, and telecommunications center and from its sensitive position around the West Berlin enclave. East Berlin (Figure 14), the capital and largest urban center in East Germany (population estimated at 1.1 million), is the most significant domestic and international telecommunications center in the country and serves as a control and coordination point for telephone, telegraph, and radio communications. It is second only to the Saxony strategic area in manufacturing importance and is a leading producer of electrical, telecommunication, and electronic

FIGURE 12. The architectural styles of buildings in Erfurt range from the very old to very new (U/OU)

(



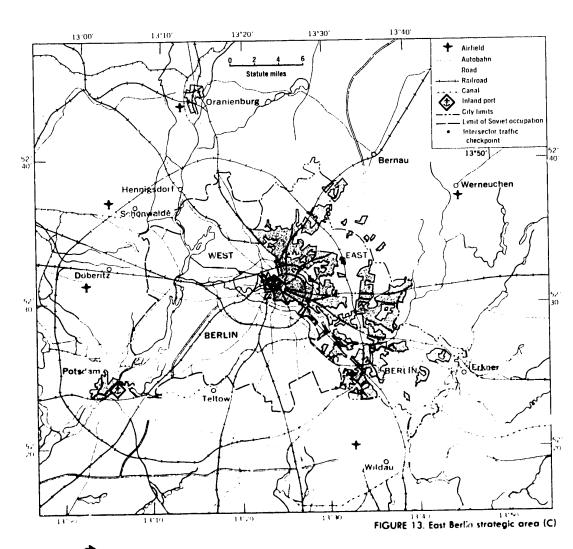


FIGURE 14. New construction in the center of East Berlin. Most of these buildings have now been completed, and the construction of other modern buildings is underway. (U OU)

10

equipment; it has the largest turbine, generator, transformer, power cable, and radar equipment plants in the country. Other industrial products in which East Berin: accounts for a significant part of East Germany production are machinery and machine tools, locomotives, rubber tires, chemicals, pharmaceuticals, motor vehicles, automotive parts, precision instruments, clothing, and cement. There are storage facilities for more than 450,000 barrels of refined petroleum products. Hennigsdorf (population estimated at 25,000), northwest of East Berlin, besides being an important steel producer, also produces locomotives, melting furnaces, and generators and other heavy electrical equipment. Potsdam (population estimated at 111,000), southwest of East Berlin, is the principal transshipment point from railroad to inland waterway in East Germany and also contributes to the industrial importance of the strategic area. Important products are refrigeration equipment, chemicals, and motion pictures.

Large concentrations of troops, military installations, and billeting facilities are distributed throughout the strategic area. East Berlin is the hub of the East German transportation network. Important highways and railroads radiate from East Berlin and connect the strategic area to all parts of East Germany and surrounding countries. The urban area is served by a partial bypass ring of autobahns and is crossed by navigable canals and a river which affords access to the inland waterway systems of East and West Germany and to neighboring countries. There are three important airfields in the area, including the international airfield south of East Berlin, which is the second largest airfield in the country.

D. Internal routes (C)

The internal routes (Figure 15) are the easiest avenues of movement between the major land approaches and the strategic areas, between the coastal area best suited for amphibious landings and the East Berlin strategic area, and between strategic areas. Most of the routes contain surfaced roads and 4'8 14"-gage railroads. Alternate lines of transportation are present in many of the routes and would greatly facilitate the bypassing of any bottlenecks. Several routes contain autobahns. The roads are generally in good condition, have easy grades and gentle curves, and are suitable for heavy traffic. Conditions for offroad dispersal and vehicular cross-country movement in most of the routes are generally fair to poor. In most of the routes, cross-country vehicular movement would be seriously hindered or precluded by soft ground at least part of the time during the period early November or December through March. Soft ground conditions are generally most severe from late February through March, and in parts of some routes soft soils preclude offroad movement when not frozen. Between December and March, snow and ice create hazardous driving conditions, and the width of roadways may be reduced by snow. Detailed information on the internal routes is presented in Figure 18.

E. Approaches

The perimeter of East Germany consists of 560 miles of coastline, including four major islands and numerous islets, and 1,433 miles of land boundaries. The boundary between East Germany and West Berlin, the 185-square mile Allied-administered exclave of West Germany, is strictly patrolled. East and West Berlin are separated by the Berlin wall (Figure 16), a masonry, wire, and wooden barrier about 26 miles long. Tank traps, light fortifications, water bodies, and embankments strengthen the barrier. There are several official crossing points between East and West Berlin; various obstructions (Figure 17) control the flow of traffic through these heavily guarded checkpoints. East Germany claims territorial jurisdiction for 3 nautical miles offshore. Figure 19 presents more detailed data on the perimeter of the country. (U/OU)

L. Land (C)

Conditions for movement across the borders range from good to unsuited. Cross-country movement would be unsuited in places because of rugged highlands, dense forests, wet ground, and wide, deep streams. Conditions are generally favorable for movement when the soils are dry or are frozen in winter. Winter snow cover and wet ground during the spring thaw are the major deterrents to movement. Numerous roads and railroads cross the East German borders from Poland and West Germany; few roads and railroads cross the border from Czechoslovakia. Most developed lines of transportation from West Germany are blocked, obstructed, or partially or completely destroyed to prevent or control through traffic at or near the border. The approaches shown on Figure 15 are the best means of land access to East Germany. Detailed information on selected land approaches is presented in Figure 20.

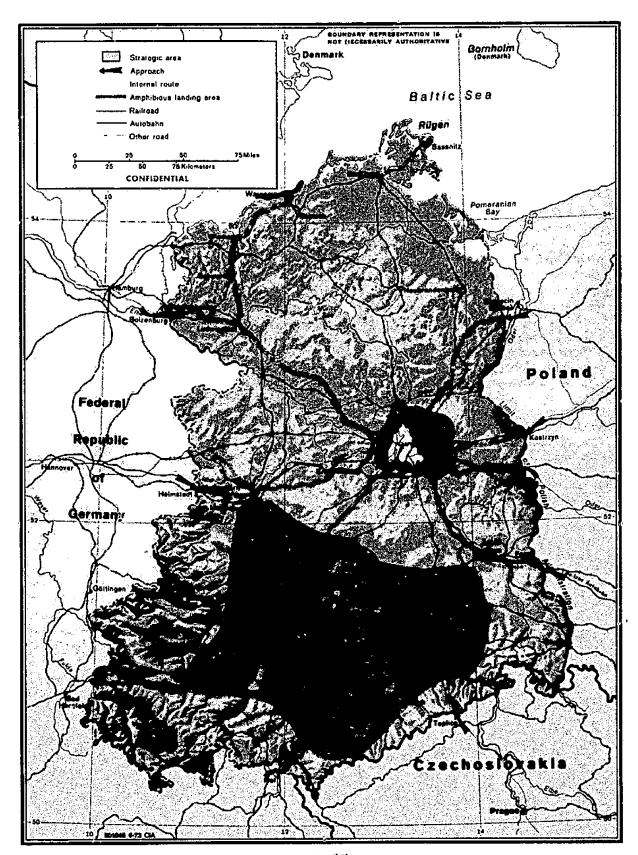


FIGURE 15. Strategic areas, internal routes, and approaches (C)

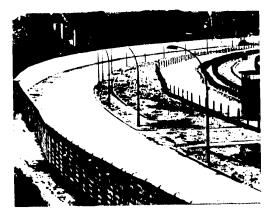


FIGURE 16. Multiple border obstacles along the Berlin wail (C)

2. Sea (C)

The Baltic Sea coast of East Germany is generally unfavorable for large-scale amphibious operations because of obstructed and restricted approaches and dunes, bluffs, or poorly drained terrain backing the coast. Seaward of the 5-fathorn curve, approaches are predominantly clear, but shoreward, approaches are encumbered in many places by islets, islands, shoals, rocks, shifting bars, wrecks, and groins and piers. In addition, littoral drift and stream discharge cause considerable shoaling in the long, narrow, shallow channels, necessitating frequent dredging if navigable depths are to be maintained. Sea ice forms during most winters, ranging from very small amounts in the more protected bays during mild winters to a nearly complete cover in exceptionally severe winters. Ice may seriously hinder or prevent navigation near the Baltic shore for as long as 30 days between January and April. Although tidal ranges are negligible throughout the year, water levels may be raised or lowered as much as 71/2 feet by winter storms in the Baltic. Surf 4 feet or higher seldom occurs. Nearshore bottom materials are mostly sand mixed with mud or gravel; bottom slopes are predominantly mild. Beach gradients are mostly mild to steep between the lowwater and high-water lines and predominantly steep in the high-water zone. The beaches suitable for amphibious landings are concentrated along the western half of the mainland coast and on the seaward coasts of the islands. The major beaches range from 800 yards to 71/2 miles long and from 10 to 150 yards wide; there are only slight width variations between low water and high water. Beach materials consist of sand with some gravel and are generally firm in the wetted area and soft where dry. Backing the beaches in many places is a nearly flat to rolling plain covered by low field crops and patches of forest; there are scattered low hillocks and numerous lakes, marshes, peat bogs, ditches, and streams. Exits from the beaches would be by tracks, trails, and streets of Warnemunde, or cross-country to nearby roads; conditions for cross-country movement range from good in a few places to poor or unsuited in most places. The amphibious landing area shown on Figure 15 provides access to a route leading to the East Berlin strategic area.

The best amphibious landing area in East Germany is a 26-mile stretch of coast extending west and northeast of Warnemunde. This area includes six beaches with a total usable length of about 9 miles. The tidal range is negligible, and the beaches range from 800 yards to 2% miles long and 15 to 150 yards wide. Surf 4 feet or higher is most frequent during July through September, when it may occur as much as 10% of the time. Nearshore bottom slopes are flat to mild, and bottom materials are sand, gravel, and clay. Beach materials are sand ar 1 sand mixed with gravel; beaches are firm in the wetted areas and soft where dry. The beaches are backed by a nearly flat to gently rolling, mostly cultivated plain that contains patches of forest and marsh, numerous streams, and scattered low hillocks. Exits from the beaches would be by loosesurfaced roads to a two-lane bituminous-surfaced road that parallels the coast about 5 miles inland.



FIGURE 17. Checkpoint at the Berlin wall. Baffles slow and control traffic. View toward East Berlin. (C)

3. Air (U/OU)

Except for the North and Baltic Seas in the north, the air approaches are over land. Weather conditions in all air approaches are most favorable in summer, when cloud cover, low ceiling, poor visibility, and frontal activity are at a minimum. Thunderstorms and their associated turbulence, however, are more frequent and widespread in summer than in other seasons. Thunderstorms occur on 3 to 7 days a month during May through August throughout all approaches except over the North and Baltic Seas, where they are less frequent. The mean height of the

³The zone under discussion for air approaches extends approximately 200 nautical miles beyond the borders of East Germany.

freezing level in summer ranges between 8,000 and 12,000 feet. Weather conditions in all approaches are least favorable in winter, when migratory storms and their accompanying frontal systems are most frequent. Common in all approaches during winter are extensive cloudiness (60% to 80%), frequently the multilayered stratiform type; low ceilings; poor visibility caused mostly by tog, snow, and haze; and severe icing conditions. However, short periods of bright, clear weather periodically occur, primarily over the eastern approaches, when high-pressure conditions push westward from the U.S.S.R. The average height of the freezing level is at or near the surface in winter. Upper winds are predominantly westerly, and mean speeds are less than 50 knots in all seasons . . . Il levels up to 55,000 feet.

16

8. Internal routes (C)	
FIGURE 18	

MOAD	Autobahn (four lane, divided,	access, concrete surface), in god	tion. 30 underpasses.
NIVERNA AND TERRALN	From Poland border near Szezecin (Stettin), to Autobahn (four lane, divided,	East Berlin strategic area. Nearly flat to roll- access, concrete surface), in god	ing plains. Cultivated crops, forests, brush,

'rom Poland be, der near Kostrayn to East Berlin strategic area. Nearly flat to gently rolling plains. Cultivated crops, forests, grass

from Poland border at Frankfurt to East Berlin strategic area. Nearly flat to gently rolling plains. Cultivated crops, forests, grass, and and brush

From Poland border at Forst to East Berlin strategic area. Nearly flat to gently rolling plains. Extensive marshes and bogs, streams, and patches of forest. orus b.

traverses rugged hills. Hills near the border from Czechoslovakia border near Teplice to Dresden in Saxony strategic area. Route are forested. In other areas, cultivated vegetation, brush, grass, and patches of forest predominate. Narrow pass at border.

rom Dreeden, in the Saxony strategic area, to the route connecting the southernmost approach from Poland to the East Berlin strategic area. Nearly flat to rolling plains. Dense forests, grass, and cultivated crops.

underpasses.

From southernmost approach in West Germany near Hof to Karl-Marx-Stadt, in Saxony strategic area. Small, relatively low corridor of scattered rolling plains through the southern highland rim and nearly flat to rolling plains along the edge of the highlands. Brush, patches of forest, grass, and cultivated crops.

'rom West Germany border northeast of Bad Hersfeld to Saxony strategic area. Route crosses rolling to rugged hills, rolling plains, and valleys. Vegetation mostly cultivated

Poor to good. Sections where dispersal and CCM seriously restricted or precluded by numerous lakes and streams, ditches, CROSS-COUNTRY MOVEMENT (CCM) Single track, 4'81/2" gage

OFFROAD DISPERSAL AND VEHICULAR

RAILROAD

Jimited

od condi-

Fair to good. Sections where dispersal and CCM seriously restricted or precluded by numerous lakes and streams, ditches, forests, and wet soils.

Fair to poor Movement restricted or pre-cluded in places by streams, wet soils, and forests, and wet soils. extensive forests.

Double track, 4'81/2" gage

Autobahn, in good condition. Two-lane

bridge at border crossing point. About

20 underpasses.

.....op....

Two-lane bituminous, in good condition.

Unsuited to poor. Extensive marshes and bogs, streams, and patches of forest.

> Generally single track, 4'81/2" gage. Double tracking is under construc-

Road from Forst scuthwest to autobahn is two-lane bituminous, stone block, or concrete, in good condition. Autobahn

tion on several sections.

Nearest railroad is double track, 4'81/2". Fair to poor. Restricted or precluded in many places by steep slopes, forests, marshes, bogs, and numerous streams. Fair most of the time near Dresden, where terrain is less rugged.

gage, and parallels Elbe.

Iwo-lane bituminous or stene-block surface, good condition. Steep grades and sharp curves restrict movement. Snow blockage possible in December through

Numerous underpasses.

is two-lane and in good condition.

Mainly poor, but fair to good in small areas in the south. Deterred by dense forests, wet areas, and soft ground Autobahn, in good condition. Many Single track, 4'81'2" gage. Railroad and

autobahn are widely separated.

In parts of the route, many opportunities for CCM fair to poor. Restricted in many offroad dispersal of vehicles: conditions for places by steep slopes, patches of forest, and areas of periodically soft, wet ground Partially double tracked, 4'81/2" gage.

Part of the route electrified.

Two-lane bituminous surface, fair to good

condition from border to Plauen. Steep

grades and sharp curves. Autobahn

from Plauen to Karl-Marx-Stadt, in good condition. Approximately 20

underpasses.

Fair to unsuited in many places between border and Eisenach; hindered by steep slopes and forests. Generally good in rolling plains and broauer valleys.

Generally single track, 4'81/2" gage. Short double track section in Erfurt-Eisenach area. Iwo-lane bituminous surface from border to autobahn near Eiserach, good condition. Remainder of route is autobahn, in good condition. About 45 under

17

(C	(Describe)
(3
	5
•	ó

ROTTE AND TERRAIN	ROAD	RAILROAD	OFFROAD DISPERSAL AND VEHICULAR CROSS-COUNTRY MOVEMENT (CCM)
From West Germany border at Helmstedt to East Berlin strategic area. Plains mainly cuiti vated between border and vicinity of Magdeburg. Between Magdeburg and East Berlin, foresta, grass, and crops, numerous lakes, and extensive marshes.	Autobahn, in good condition. About 45 underpasses.	Double track, 4'8'1 ₁ " gage, from border to Magdeburg area. Generally single track to East Berlin. Railroad widely separated from road in many places.	Between border and point north of Magdeburg, many opportunities for easy offroad dispersal. CCM on cultivated surfaces usually good. Between point north of Magdeburg and East Berlin strategic area, forests and poor drainage make offroad dispersal and CCM prevailingly poor 3: unsuited. From Magdeburg to East Berlin strategic area, a canal generally parallels the railroad.
From West German) border near Boisenburg to East Berlin strategic area. Nearly flat to roll- ing plain. Brush, forest, crops, and grass.	Three-lane concrete or stone-block surfaces, in good condition. Several through-truss bridges.	Generally single track, 4'94'2", gage; north of road from border to Boizen- burg, roughly parallels road in remainder.	a
Route conz. ting area best suited for amphibious landings and the route between border near Boisenburg and East Berlin strategic area. Mostly flat, cultivated plains, a few areas of brush, forest, and grass.	Autobahn, in good condition, from Warnemunde to Rostock. From Rostock to Wismar, two-lane bituminous surface, in good condition. Remainder of route two-lane bituminous or concrete surfaces, in fair to good condition. Sharp turns and narrow streets in	Predominantly single track, 4'91/2", gage; some sections double track.	Ö
From East Berlin et rategie area to Leipzig in the Saxony strategie area. Mostly flat it rolling plains. Brush, forests, crops, and grass. Almost entirely cultivated vegetation in south.	towns. Autobahn, in good condition. Numerous underpasses.	Double track, 4'89'2" gage. Line electrified from Bitterfeld to Le:pzig.	Double track, 4'81/2" gage. Line elec- In north, prevailingly poor or ursuited. trified from Bitterfeld to Le:pzig. Primary hindrances are forests, moist or wet ground, and many lakes, watercourses, ditches, and canals. In southern part of route, mostly fair to good.

FIGURE 19. Boundaries (U/OU)

BOUNDARY	LENGTH	STATUS	TERRAIN
	Miles		
Baltic Sea coastline, in- cluding major islands and islets.	560	Territorial jurisdiction claimed 3 nautical miles offshore. Permanent batteries concen- trated at Warnemunde and on the island of Ruegen.	Nearly flat to gently undulating plain. Mostly cultivated, but many patches of forests.
West Germany	858	Demarcated but not recognized as an inter- national boundary by U.S. No major per- manent fortifications. Fences, trip flares, minefields, and bunkers. Border guarded and patrolled. Quality of fences and guard towers is continuously upgraded.	Northern half (north of 52°N.) mostly flat to rolling plains. More than 50 miles of northern half formed by Elbe River. Patches of forests, cultivated vegetation, and wet areas.
Poland	290	Demarcated and undisputed. No major permanent fortifications. Fences, flares, and guard towers. Guarded, but security measures less than along boundary with West Germany. Not recognized by U.S. as international boundary.	Boundary formed mainly by Oder and Neisse rivers through nearly flat to gently rolling, poorly drained plains. Vegetation mainly forests and cultivated crops, small areas of brush, grass, and peat bogs.
Czechoslovakia	285	Demarcated and undisputed. No major permanent fortifications. Fences, flares, cleared strips, and guard towers. Guarded, but security measures less than along boundary with West Germany.	Boundary through mostly forested, rugged hills. Brush and cultivated crops locally.

CONFIDENTIA	Ľ
-------------	---

АРРОАСН	ROAD	RAILEOAD	OFFROAD DISPERSAL AND CROSS-COUNTRY MOVEMENT
From east of Szczecin, Poland. Nearly flat to gently rolling area of cultivated crops.	Autobahn, in good condition	4'891 ₂ " gage, partly double track. Section crossing border is single track, 4'81," range.	Generally good. Restricted in places by wet soils, streams, swamps, marshes, ditches, bogs, and scattered forests.
From Kostrzyn, Poland. Nez.ly flat to gently Two-lane bituminous surface, fair to good rolling plains, mostly cultivated.	Two-lane bituminous surface, fair to good condition.	Double track, 4'81/2" gage	Poor. Restricted by wet soils, streams, swamps, marshes, ditches, bogs, and scattered forests.
From Poland border near Frankfurt, East Germany. Nearly flat to gently rolling	dodo	do	Generally good, poor in places. Restricted primarily by extensive, predominantly evergreen forest.
plains, mostly cultivated. Southernmost land approach from Poland. Nearly flat to gently rolling plains, areas of	Two-lane concrete or bituminous surfaces,doin fair to good condition.	op	Unsuited Restricted primarily by extensive, predominantly evergreen forests and marshes.
cultivated crops and forests. From Teplice, Czechoslovakia. Mostly forested hills and low mountains, some areas gently rolling and cultivated.	Two-lane concrete, bituminous, or stone- block surfaces, in good condition. Move- ment restricted near border by sharp curves, steen grades, and from December	None near road. Closest railroad paralleis Elbe, double track, 4'8' 2" gage.	Poor to unsuited. Limited by snow, moderate to steep slopes, and dense evergreen forests, particularly along the border.
From Hof, West Germany. Low, rolling to steep, partly forested hills and nearly flat to rolling, chiefly cultivated plains.	to March by heavy snov. One- and two-lane bituminous-surfaced roads.	Double track, 4'81/2" gage	Generally fair through the nearly flat to rolling gap near Hof. Hindered in places by patches of forest, some steep slopes, and
From Bad Hersfeld, West Germany. Forested rolling plains and hills, some areas of	Ψr	ор	Unsuited. Restricted or precluded by steep hill slopes, dense forests, and at times by deen winter snow and wet ground.
cultivation. From Helmstedt, We .; Germany. Nearly flat to gently rolling, cultivated plains.	nous-surfaced roads to border. Autobahn, in good condition. Movement restricted in places by sharp curves and hy narrow streets in towns.	ф	Fair to good except for some areas of bogs, marshes, lakes, streams, ditches, soft soils, forests, and road embankments.
From Hamburg, West Germany, to border near Boizenburg. Nearly flat to gently roll- ing plain with patches of forests, cultivated	Two-lane, mostly bituminous surface, in fair condition. Movement restricted by sharp curves and by narrow streets in	Single track, 4'81'2" gage	Fair to good except for some areas of bogs, marshes, lakes, streams, ditches, soft soils, forests, and road embankments.
vegetation, and areas of peat bogs.	DOWIIS.		

CONFIDENTIAL

FIGURE 20. Land approaches (C)

Places and features referred to in this General Survey (u/ou)

	co	ORD	INAT	ES		CC	oore	INATE
	-	'N.		'E.			'N.	۰
dlershof (sec. of East Berlin)	52	27	13		Nauraburg	51	09	11 4
ltenburg	50	59	12	27	Neisse (stream)	52	04	14 4
ue	50	35	12	42	Neubrandenburg	53	34	13 1
abelsberg			13	06	Neustrelitz	53	22	13 0
ad Elster			12	14	Niederfinow	52	50	13 5
ad Hersfeld, West Germany			9	42	Niemegk	52	05	12 4
ad Schandau			14	09	Oberhof	50	43	10 4
ansin			14	08	Oder (stream)	53	32	14 3
arhöft			10	02	Oder-Havel-Kanal (canal)	52	52	14 (
arth			12	44	Oder-Spree-Kanal (canal)	5∠	23	13 4
autzen			14	26	Oranienburg	52	45	13 1
ergen			13	26	Osnabrück, West Germany	52	16	8 (
erlin			13	24	Osthafen (port)	52	27	13
esenthal			13	38	Ostseebad Wustrow	54	21	12
tterfeld			12	19	Paderborn, West Germany	51	43	8
ankenheim				25	Pankow (sec. of East Berlin)	52	34	13
öhlen				23	Parow	54	21	13
oizenburg				43	Pätz	52	14	13
onn, West Germany				06	Peenemünde	54	08	13
oxberg				34	Petkus	51	59	13
randenburg				33	Piesteritz	51	52	12
randenburg (region)				00	Plauen	. 50	30	12
rannenburg (region)				32	Pomerania (region)	53	40	15
				21	Potsdam	52	24	13
Breege	. 59	03		43	Prague, Czechoslovakia	. 50	05	14
Briesen Brocken (<i>peak</i>)				37	Radeberg	51	07	13
srocken (peak)	. 52	30		30	Rheinsberg	. 53	06	12
Buch (sec. of East Berlin)	. 54	27		13	Riems (island)	. 54	11	13
Bug	. 59	94		18	Riesa	. 51	18	13
Calvörde				26	Rossendorf	. 51	03	13
Cölpin				20	Rosslau	. 51	53	12
Cottbus	. 51	40		29	Rostock	. 54	05	12
rossen					Rothensee	. 52	2 11	11
Dänholm (island)	. 54	19		07	Ruderitz	. 50	25	12
Danube (stream)	. 45	20		40	Rügen (island)	. 54	1 25	13
Darsser Ort (cape)	54	29		31	Rummelsburg	. 52	2 30	13
Dequede				41	Saale (stream)	. 51	1 57	11
Dessau	51	50		15	Saalfeld	. 50	39	11
Dresden	51	03		3 45	Saalow	. 52	2 12	13
East Berlin	52	30		3 3 3	Saar, West Germany (region)	49	9 15	7
Eberswalde	52	50		3 50	Sangerhausen	. 51	1 28	
Eggersdorf	52	32		3 49	Sassnitz			13
Eilenburg	51	28		2 37	Kühlungsborn			
Eisenach				19	Saxony (region)	5	1 00	
Eisenhüttenstadt	52	3 09	-	4 39	Schkopau	5	1 24	- 11
Eisleben				1 33	Schönebeck	. 5	2 01	. 11
Elbe (stream)				9 00	Schwarzenpfost	. 5	4 11	12
Elbe-Havel-Kanal (canal)				2 23	Schwarze Pumpe	. 5	1 32	14
Erfurt	5) 5 9		1 02	Schwedenschanze (site)	. 5	4 33	13
Erzgebirge (mts)	5	30	1.	3 10	Schwedt	. 5	3 04	14
Espenhain	5	1 11		2 28	Schwerin	. 5	2 12	2 13
Fichtel-Berg (mt)	5	0 26	1	2 57	Seefeld	. 5	2 37	7 13
Forst	5	1 44	: I	4 38	Seelingstädt	. 5	0 47	7 12
Frankfurt	5	2 21	. 1	4 33	Seelingstadt	. 5	50 30	9 13
Freiberg	5	0 55	1	3 22	Seiften	. 5	1 21	1 14
Fulda, West Germany	5	0 33		9 40	Silesia, Poland and Czechoslovakia (region	5	i 00	18
Gedser Denmark	5	4 35) 1	1 57	Sonneberg	,	in 21	1 11
Gehlsdorf	5	4 06	5 1	2 06	Stendal	5	59 36	6 1
Gera	5	0 52	2 1	2 05	Stralsund		34 19	8 13
Gerstungen	5	0 58	31	0 04	Strausberg		50 26	5 1
Glowe	5	4 34	1 1	3 29	Strausberg	u	54 31	5 13
Görlitz	5	1 10) 1	5 00	Stubbenkammer	٠. ٠	יט זינ	1 1
Greifswald	5	4 06	3 1	3 23	II	;	50 94	6 10
Gross Inselsherg (mt)	5	0 52	2 1	0 28	Suhl	:	50 O	. I
Güldendorf	5	2 19) 1	4 32	Szczecin (Stettin), Poland	:	va 20	5 14
Halle	5	1 30) I	2 00	Tarnewitz	٠. أ	03 5	8 1
Halle-Neustadt (sec. of Halle)	8	1 29	9 1	1 56	Tautenburg	[or 0	0 1
Hamburg, West Germany	E	3 3	3 1	10 00	Teplice, Czechoslovakia	8	50 3	8 1
Harz (mts)	!	1 4	5 1	10 30	Thüringer Wald (mts)	8	50 4	0 1
Havel (stream)		2 5		11 58	Thuringia (region)	:	51 O	0 1
Havel-Kanal (cana!)	!	52 3	6	13 12	Torgau	{	513	4 1
Havel-Kanai (cana:)		0	6	14 12	Trattendorf	8	513	2 1
Helbra		51 3	3	11 30	Trelleborg, Sweden	;	55 2	2 1
Helmstedt, West Germany	• • • •	52 1	4	11 00	Tremsdorf		52 1	6 1
Helmstedt, West Germany.	• • • •	1	-			4.25	51 1	01

ADDROVED EC	NR RELEASE: 2009/06/16: 0	NI A	ВΓ	אסנ	14 N	00707B000200440022 8	
Total Control of the	And Name of the Control of the Contr			13*0 13 4		Sasifeld 50 39 11	22
9.7	Oresden			13 3		Saalow 52 12 13	23
	berswalde			13 5	- 11	Saar, West Germany (region) 49 15 7	00
F	Eggersdorf	52 3		13 4		Samernauscu	18 39
	Silenburg			12 3	91	Sassific	43
EY.	Sisenach		-	10 1 14 3	. 10	Saxony (region)	00
	Eisleben			11 3	- 11	Sahkanau 51 24 11	59
Y	Elbe (stream)	53 5	0	9 0		Schönebeck	_45
	Elbe-Havel-Kanal (canal)			12 2		Schwarzenpiost	21
96.	Erfurt			11 (13)	11	Schwedenschanze (site)	09
P.	oenhain			12	- 11	Schwedt 53 94 14	18
	Figure-Berg (mt)			12	- 16		53
	Forst			14	38		8 41 2 15
	Frankfurt			14	- 11	Declingstade	2 15 3 27
	Freiberg			13 :		Deliter	01
	Fulda, West Germany			11	- 1	Silesia, Poland and Czechoslovakia (region). 51 00 18	3 00
	Gehlsdorf			12		Sonneberg 50 21 11	10
	Gera			12		Stendal	51
	Gerstungen			10	04	l Dirandandini in	3 06
	Glowe			13		I Duradoberg	3 53 3 40
	Görlitz			15	- 1	Diacocinamical Control Control	3 12
	GreifswaldGross Inselsberg (mt)			13 10	- 1	Suhl	42
All y	GüldendorfGüldendorf			14	L L		35
	Halle			12		Tarnewitz 53 58 11	1 14
	Halle-Neustadt (sec. of Halle)	51	29	11	56	1 Laurenburg	1 43
	Hamburg, West Germany			10		Topinot, outside the second	3 50 0 50
	Harz (mts)			10			1 00
	Havel (stream)			11 13	- 1	I I I I I I I I I I I I I I I I I I I	3 00
	Heinersdorf			14			4 23
	Helbra			11	- 1	Trelleborg, Sweden	3 10
	Helmstedt, West Germany	52	14	11	00		3 07
	Hennigsdorf			13		0.11.01.01.01.01.01.01.01.01.01.01.01.01	1 48 1 26
	Hettstedt			11			4 04
	Hildesheim, West Germany			11	58 55		3 06
	Hohenwarte			11			2 21
	Hoyerswerda			14	15	I Wantabasia	3 40
	Ilmenau	50	41	10			3 03
	Jena			11		1	2 05 1 19
100 to 10	Juliusruh			13 14			9 39
	Kamenz			12			3 20
	Karl-Marx-Stadt				30		3 20
	Kolkwitz			14		Weststaaken 52 30 13	3 08
	Königstein	50	55	14			3 27
	Königs Wusterhausen			13		1	4 43 1 28
	Köpenick (sec. of East Berlin)			13 14			2 39
	Kostrzyn, Poland			11		K	1 45
	Lauta			14		Wolgast 54 03 1	3 46
	Leipzig			12			7 02
	Leuna	. 51	19	12			3 28
	Lichtenberg (sec. of Gera)			12		I	9 56 3 23
	Lindenberg				08 57	1	3 23 3 30
	Linow				23		2 09
	Labra		35		37		0 39

Eisenhüttenstadt	59	na	14	30		Saxony (region)	51	00	13	00
Eisleben			11		1	Cableman	51	24	11	59
Elbe (stream)			9		1	Schöneheck	52	01	.: 11	45 may
Elbe-Havel-Kanal (canal)			12		1	Schwarzenpfost	54	11	12	18
			11		1	Schwarze Pumpe	51	32	14	21
Erfurt					1	Schwedenschanze (site)	54	33	13	09
Erzgebirge (mts)			13		1	Schwedt	53	04	14	
Ł oenhain	51	11	12		1	Schwedt	50	19	13	
Figure-Berg (mt)	50	26	12	57	H	Schwerin	52	12	13	
Forst	51	44	14	38	1	Seefeld	52	37		
Frankfurt			14	33	- 11	Seelingstädt	50	47	12	
Freiberg				22	-	Seiffen	50	39	13	
_				40	I	Senftenberg	51	31	14	01
Fulda, West Germany					-	Silesia, Poland and Czechoslovakia (region).			18	00
Gedser, Denmark				57	ı İİ	Sonneberg	50	21	11	
Gehlsdorf				06		Sonneberg	50	26	11	
Gera	50	52	12	05	-	Stendal				
Gerstungen	50	58	10	04	1	Stralsund			13	
Glowe			13	29	ı	Strausberg			13	
Görlitz			15	00	-	Stubbenkammer	54	35	13	40
				23		Südhafen (port)			13	12
Greifswald				28	I	Suhl			10	42
Gross Inselsberg (mt)					ı	Szczecin (Stettin), Poland				35
Güldendorf				32	1					14
Halle			12	00	1	Tarnewitz				
Halle-Neustadt (sec. of Halle)	51	29	11	56		Tautenburg				43
Hamburg, West Germany			10	00		Teplice, Czechoslovakia	50	38		50
Harz (mts)			10	30	-	Thüringer Wald (mts)	50	40	10	50
Havel (stream)				58	1	Thuringia (region)			11	00
				12	Ш	Torgau	51	34	13	00
Havel-Kanal (canal)					П	Trattendorf				23
Heinersdorf				12	-					10
Helbra				30	Ш	Trelleborg, Sweden				
Helmstedt, West Germany	52	14	11	00		Tremsdorf				07
Hennigsdorf	52	38	13	12	- 11	Unstrut (stream)	51	10		48
Hettstedt			11	30	U	Unterwellenborn	50	39	11	26
Hildesheim, West Germany			9	58	I	Vetschau	51	47	14	04
				55	1	Vitte	54	34	13	06
Hof, West Germany					ı	Vockerode				21
Hohenwarte				29	۱					40
Hoyerswerda				15		Wahnsdorf				
Ilmenau	50	41	10	54	- 1	Waldheim				03
Jena	50	56	11	35	- 11	Warnemünde	54	10		05
Juliusruh			13	22	- 11	Weimar	50	59	11	19
Kamenz			14	06	- 11	Werra (stream)	51	26	9	39
Karl-Marx-Stadt				55	li	West Berlin			13	20
				30	ı	Westhafen (port)			13	20
Kassel, West Germany				-	- 1					08
Kolkwitz				15	l	Weststaaken				27
Königstein	50	55	14	04	_	Wieck				
Königs Wusterhausen	52	17	13	37	- 11	Wilhelm-Pieck-Stadt Guben				43
Köpenick (sec. of East Berlin)			13	34	ı	Wismar				28
Kostrzyn, Poland			14	39	- 1	Wittenberg	5.1	52	12	39
Kühlungsborn				43	ı	Wittenberge			11	45
•				04	-1	Wolgast			13	46
Lauta						Wrocław (Breslau), Poland				02
Leipzig				20	j]					28
Leuna	51	19		01	1	Wünsdorf				
Lichtenberg (sec. of Gera)	50	50		9 09	- (Würzburg, West Germany				56
Lindenberg	52	12	14	1 08	- 1	Zehlendorf				23
Linow	58	3 23	13	3 57	<u> </u>	Zehrensdorf				30
Lippendorf	. 51	11	12	2 23	ı	Zeitz			12	09
Lohme	54	35		3 37	- 1	Zella-Mehlis			10	39
				3 58	I	Zeuthen			13	37
Lübbenau					- 1	Zielitz				41
Lubmin	. 54	1 07		36	1	Zossen				27
Ludwigslust				1 30						
Lützkendorf	. 5	1 18	11	1 51	- 1	Zschornewitz				24
Magdeburg	. 5	2 10	1	1 40	- 1	Zwickau	. 50	44	12	30
Marienborn	. 5	2 12	1:	07	١					
Marienehe (sec. of Rostock)	. 5	4 07		2 05	١	Selected airfields				
Markersbach	51	32		2 52		Alt Lonnewitz	. 51	33	13	3 13
				2 10		Briesen	. 59	02	13	3 45
Markgrafenheide						Dresden				3 46
Marlow				2 35						
Marquardt				2 58		Drewitz				32
Mecklenburg (region)	. 5	3 30	13	2 00	1	Gross Dolln				3 32
Meiningen	. 5	0 33	1	0 25		Kothen				l 58
Meissen	. 5	1 09		3 29		Oranienburg	. 52	2 44	13	3 13
Merseburg				2 00		Peenemunde				3 47
	- 25		-	_ ~~	1					1 20
			1	1 41		Preschen	. 0	l 4.U		1 38
Mittelland Kanal (canal)	. 5	2 16		1 41		Preschen				
Moxa	. 5 . 5	2 16 0 39	1	1 38		Schonefeld	. 52	2 23	13	3 31
	. 5 . 5 . 5	2 16 0 39 1 40	1				. 52 . 51	2 23 1 35	13 14	

